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Installation Guidelines for all Quaker products with nail fins New Construction nail fin installation with a Zip sheathing system.

Read these instructions completely before starting any installation. Failure to install and maintain our product according to these instructions may void any product warranty. Please visit our website at www.quakerwindows.com or call 1-800-347-0438 for additional information.

Tools required by installer:

Safety glasses		Utility knife	
Drill/Driver		Caulk gun	
Level		Tape measure	
Hammer		Pliers	
Putty Knife			

Materials required by installer:

Foam Backer Rod		Minimally Expanding Foam	
Shims (Waterproof)		Sealant	
Fasteners		IPA Alcohol	
Flashing tape (Self-adhering Zip system approved)		Drip Cap	
			

WARNING

Tools

- Follow manufacturer's instructions for safe operation of tools, and ladders/scaffolding. Always wear safety glasses. Failure to do so could result in injury, product or property damage.

Handling

- Do not store units outside, or in a hot environment. Doing so could result in product damage.
- Do not carry flat.** Doing so could result in product damage, injury, or property damage.
- Stack units as straight as possible to avoid bowing. **Do not lay flat!**

Glass

- If broken, glass can fragment causing injury. All Quaker products are available with safety glass. In many areas, local building codes require safety glass in certain locations and/or applications. Unless safety glass is ordered, Quaker windows are not provided with safety glass. Before ordering, consult your local building codes for more definitive information.

Fastening

- Metal fasteners and components could corrode when used with preservative-treated lumber. Use approved fasteners and components to fasten window or door. Failure to do so could cause a failure resulting in injury, product or property damage.
- Fastener must attach to a structural framing member with 1 1/2" minimum fastener embedment, or minimum 3 full threads with a minimum 5/16" head as products were tested with.
- Quaker does not supply anchorage/fastener calculations, and is not responsible for determining structural adequacy of the anchorage and fasteners used to install our products, or the openings into which they are installed.**
- Do not** over drive screws or nails. Doing so could result in product damage.

 **CAUTION**
Installation

- Always support window or door in opening until fully fastened. Failure to do so could result in the window or door falling out or causing injury, product, or property damage.
- Nailing flanges and drip caps (integral or applied) **do not** take the place of window flashing. All windows and doors must be properly flashed and sealed with material compatible sealant for protection against water and air infiltration around the entire perimeter. Failure to do so could result in product or property damage.
- **Do not** set window directly on sill plate. Place shims under the side jambs. Window or door must be properly shimmed. Failure to do so could affect operation and product performance and could result in product damage.
- Live or dead loads transferred into our product can affect functionality, damage frame joinery or cause glass failures. Dead loads such as upper levels, roof, etc. Should be constructed before window or door is installed.
- Loads shall be designed to withstand the most critical effects of load factors and load combinations as required by the building code. (Loads are including but not limited to Live, Dead, Collateral, Auxiliary, Thermally induced, Seismic, etc.)
- Maximum vertical deflection of the header under all Load combination should not exceed the Span/720 or 1/4" whichever is less.
- Windows and doors have small parts. Small parts if swallowed could pose a choking hazard to young children. Dispose of unused, loose, or easily removed small parts. Failure to do so could result in injury.
- **Do not** drill through or into window sill to install alarm wires.

Sealing

- Follow instructions of foam, sealant, and flashing manufacturers regarding safety, material application, compatibility, and periodic maintenance for continued weather resistance of their products. Failure to do so could result in product or property damage. **DO NOT** overfill between the frame and opening.
- Minimally expanding foam insulation must be compliant with AAMA 812-19.
- Quaker recommends 100% silicone (ASTM C920 compliant) neutral cure only sealant. Always clean all areas where sealant will be applied. Failure to do so could result in product or property damage.
- Flashing tape must meet ASTM-D779 performance requirements.
- Maintain a minimum of 1/4" between the window or door frame and exterior finish materials. Failure to do so could result in product or property damage.

Joining

- Do not join any window or door to any window or door not designed for joining. Joined windows and doors must be individually supported in the opening. Failure to do so could affect operation and product performance and could result in product or property damage.

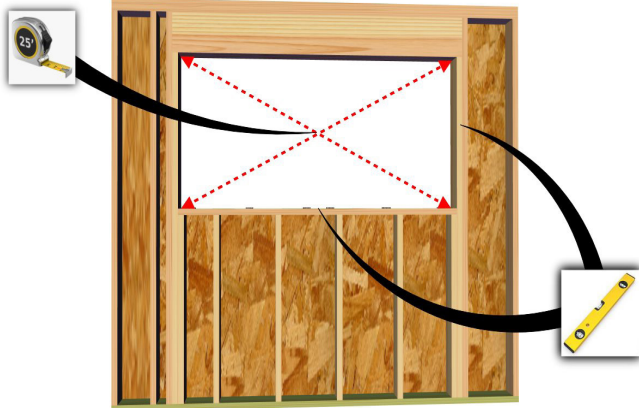
Cleaning

- Acid solutions used for cleaning will damage glass, fasteners, hardware, and metal flashing. Protect these products and follow cleaning products manufacturers instructions. If acid contacts the window or door, wash all surfaces immediately with clean water.
- **Do not** use razor blades to clean glass surface. Glass damage could result.
- Clean glass using liquid glass cleaner.
- Clean frame, sash, panels, and insect screens using mild detergent and warm water with a soft cloth or brush.

IMPORTANT

- Buildings constructed prior to 1978 could contain lead paint which could be disturbed during window or door replacement. For more information on proper management of lead paint, go to: www.epa.gov/lead
- Care must be taken to properly recycle or dispose of old materials. Any recyclable materials should be separated from non-recyclable or hazardous materials. Please consult with local or state authorities regarding proper disposal of non-recyclable or hazardous materials.
- These are generic instructions intended to cover most common situations, which may not be appropriate for all installations due to building design, construction materials, or methods used and/or building or site conditions. Consult a contractor or architect for recommendations.
- Inspect all units for any damage or defects prior to installation. Contact the nearest Quaker distributor if there are any problems.

1



Measure and verify the opening is sized correctly. The rough opening should be a minimum 1/2" (but not to exceed 1") wider and taller than the unit. Allow additional space for flashing thickness, installation clips, joining components, and their fasteners.

2

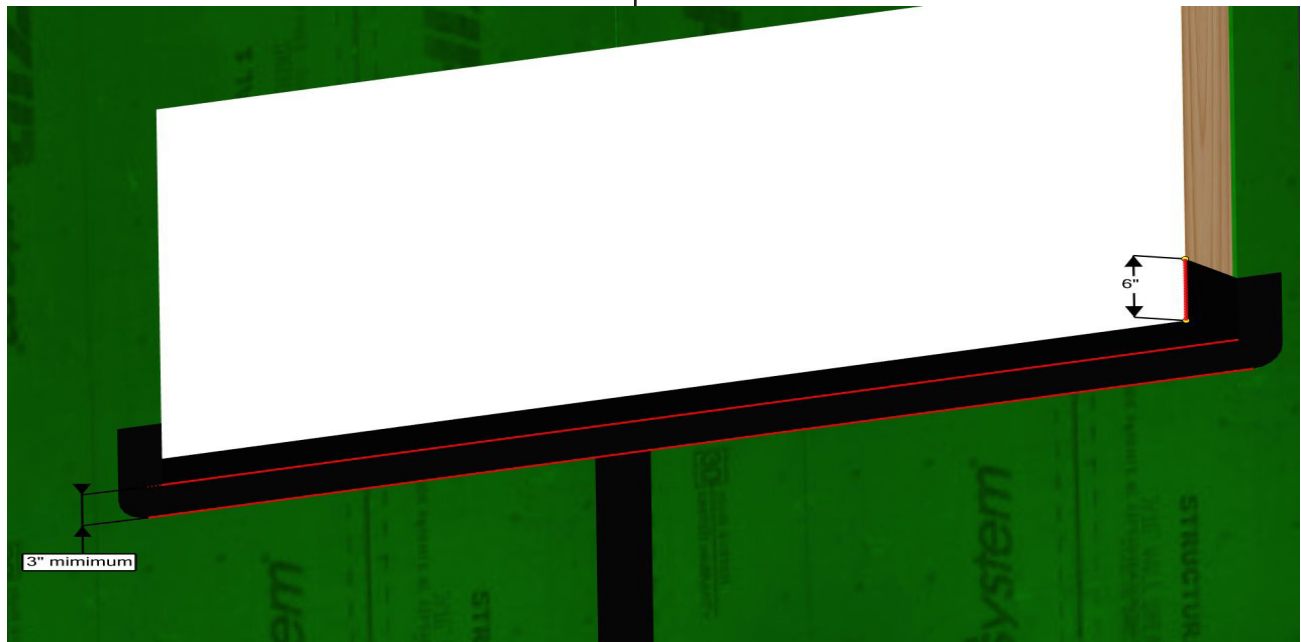


Inspect the joints of the water resistant sheathing. Joints must be sealed according to the sheathing manufacturer's instructions. Quaker assumes no responsibility for the design, quality or durability of the sheathing system or its joints.

Taped joints intersecting with the bottom or sides of the opening must have tape installed before beginning installation.

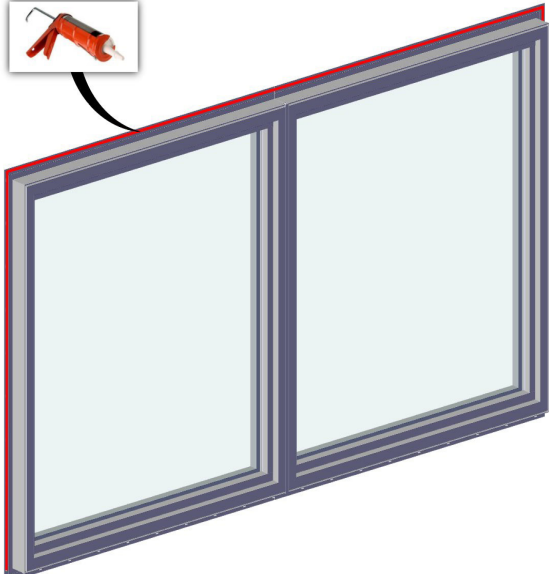
However if you have any vertical seams above the window or door opening do not seal them until after the window head flashing tape has been applied.

3



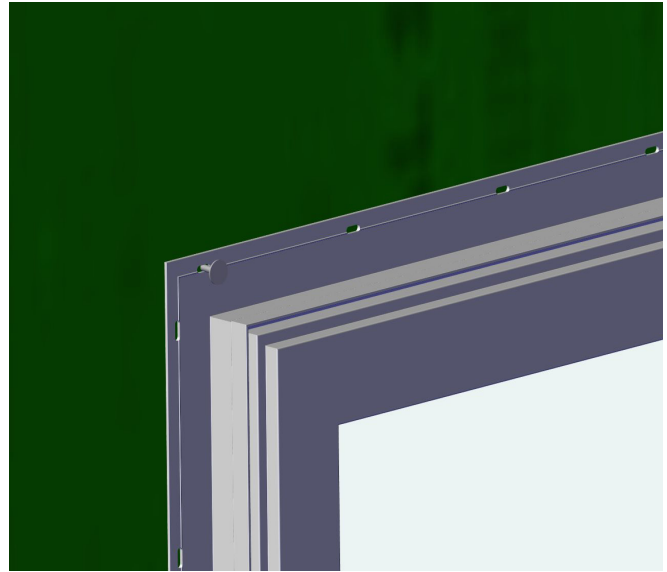
Use Zip flashing tape or flashing that meet ASTM-D779 performance requirements. Use flashing that is 6" minimum in width. Measure the width of rough opening and cut a length of flashing that is 12" wider than the rough opening. This will allow you to run the flashing 6" up each side. Apply sill flashing to exterior side first allowing for a minimum of 3" of flashing to be below the sill, and a minimum of 6" up each side as shown above. Flashing tape must cover the entire sill plate. If needed, apply an additional flashing piece over the first one (start from the exterior and work toward the interior). Maintain a minimum 1" overlap. Use a roller to firmly press all flashing tape down until the texture of the sheathing can be seen through the tape.

4



Apply a 3/8" diameter bead of 100% neutral cure silicone sealant (ASTM C920 compliant) along the backside of the nailing flange. Bead must run continuously around both sides and across the head, in line with and completely covering the nailing flange holes.

5



Make sure window is closed and locked before setting the window. Center and set the window into the rough opening, making sure there are equal gaps on both sides of the window. Temporarily tack the window into place using 2" galvanized roofing nails through the pre-punched hole on one top corner of nailing flange. Do not drive the nail in fully.

6

Level at the sill and plumb the frame (interior/exterior). Shim under each side of window to bring to level if necessary. Place additional shims under each mullion and sliding window interlock.

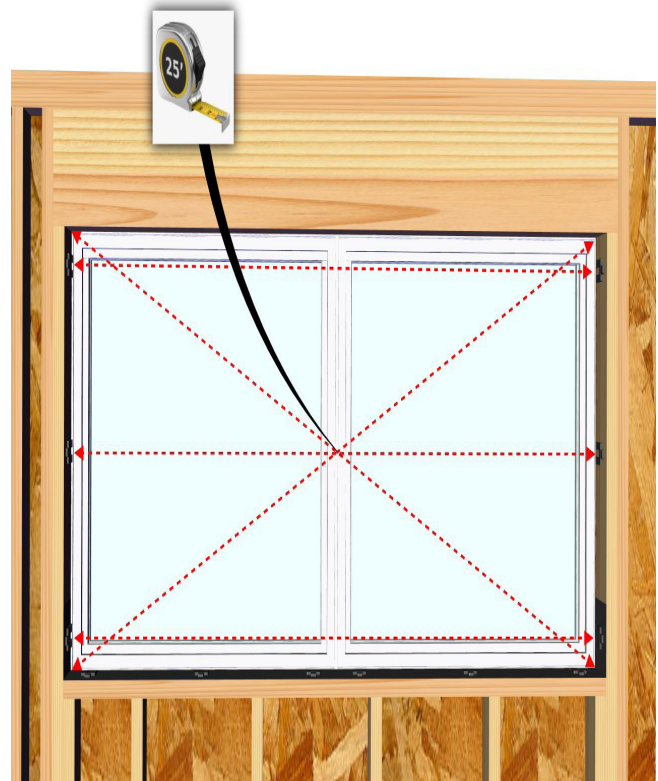
From the interior, square the frame in the opening by installing shims between the jambs and framing 4"-6" from the head jamb and sill. Measure the diagonals and adjust shims until the unit is square in the opening. DO NOT shim above the window.

Now tack the lower corners of the nailing fin and recheck for square. If necessary remove the nails and adjust shims until the unit is square.

Once square install additional shims at 16" intervals on center and at each lock point. Always shim at check rails and lock stiles.

Measure at head jamb, center of unit, and sill to make sure all dimensions are equal. If they are not, you will have to adjust the shims accordingly.

Once the unit is square and plumb in the opening, operate the sash (on operable units) to make sure it is operating properly. If not, you may have to make some adjustments to the shims. Complete fastening the unit using every hole or a minimum of 12" on center.



7



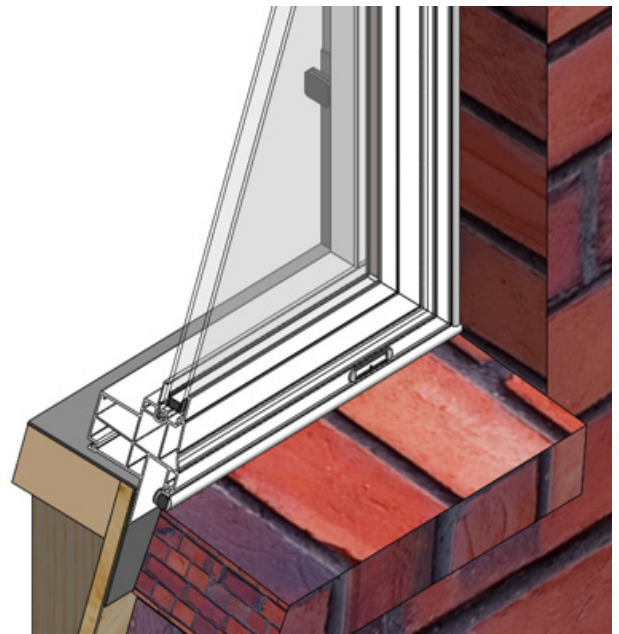
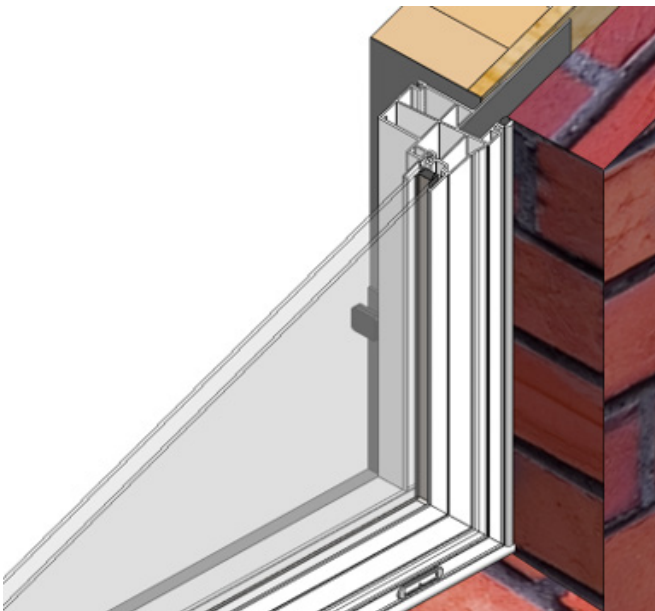
Cut two pieces of flashing tape for jamb flashing extending 1" above window head flange and 4" to 6" below bottom edge of sill flashing. Use roller to press tightly along sides of window frame.

8



Apply a 3/8" sealant bead to the top exterior edge of window frame before installing the drip cap. Cut a piece of flashing tape for the head flashing, which extends beyond outer edges of jamb flashings. Tape any other vertical seams above the window making sure to lap the tape a minimum of 1" over the head flashing.

9



After siding or wall exterior is complete, apply backer rod and sealant between the window frame and exterior finish material on all four sides of unit. Make sure to clean all surfaces before applying sealant.

Insulate between the window frame and the rough opening using minimally expanding spray foam insulation.



Installation Guidelines

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If this set of instructions doesn't match your installation method or wall conditions please check our website listed below for other options, or call the office.

Scan here for a digital version of these guidelines in English



Or go to: <https://www.quakercommercialwindows.com/resources/installation-instructions-english/>

Scan here for a digital version of these guidelines in Spanish



Or go to: <https://www.quakercommercialwindows.com/installation-instructions-spanish/>

